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APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/030,617		07/25/2002	Alfred Goerlach	10191/2177	10191/2177 8318	
26646	7590	09/11/2003				
KENYON		ON	EXAMINER			
ONE BROADWAY NEW YORK, NY 10004				POTTER, ROY KARL		
				ART UNIT	PAPER NUMBER	
				2822	<del> </del>	
				DATE MAILED: 09/11/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
Office Action Commons	10/030,617	GOERLACH ET AL.					
Office Action Summary	Examiner	Art Unit					
The MAIL INC DATE of this communication and	Roy K Potter	2822					
The MAILING DATE of this communication app ars on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status							
1) Responsive to communication(s) filed on 25 J	<u>uly 2002</u> .						
2a) ☐ This action is FINAL. 2b) ☑ Thi	is action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. <b>Disposition of Claims</b>							
4)⊠ Claim(s) <u>11-20</u> is/are pending in the applicatio	n.						
4a) Of the above claim(s) is/are withdraw	vn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>11,17 and 19</u> is/are rejected.							
7)⊠ Claim(s) <u>12-16 and 18</u> is/are objected to.	☑ Claim(s) <u>12-16 and 18</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
·	priority under 35 U.S.C. § 119(a)	)-(a) or (i).					
a) All b) Some * c) None of:	hous been received						
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) Patent Application (PTO-152)					

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 11, 17 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by publication DE 2751667.

Publication DE 2751667 discloses a monocrystalline semiconductor substrate 2 shown in Figure 1. An insulation layer 8 us arranged on a surface of the semiconductor substrate 2. A contact hole 10 penetrates the insulation layer. A contact structure 12 contacts the substrate through the contact hole. The contact structure is aluminum, which is soluble in an anisotropic dissolving process. The edges of the contact hole include diffusion stop structures in the form of (111) surfaces which prevent aluminum from spreading into the semiconductor material.

### Allowable Subject Matter

Claims 12 - 16,18 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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The prior art does not teach or suggest the recited shapes and structures.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roy Potter whose telephone number is (703) 308 - 4106.

Roy Potter

Primary Examiner

Technology Center 2800

Potter

June 27, 2003